

**What is claimed is:**

1. A recording medium having a data structure for managing reproduction of multi-path video data recorded on the recording medium, comprising:

5       a data area storing the multi-path video data; and  
      a management information area storing title management information to assign a plurality of titles to the multi-path video data, wherein:

      the title management information includes at least one title  
10 block that is composed of an entry title and at least one non-entry title; and

      the titles pertaining to the title block are associated with mutually different reproduction paths.

2. The recording medium of claim 1, wherein each of the titles  
15 has type information to identify whether it is entry title or not.

3. The recording medium of claim 2, wherein titles not pertaining to the title block are specified to entry titles by the type information.

4. The recording medium of claim 1, wherein the titles  
20 pertaining to the title block are regarded as a single title when title jump is conducted and title selection menu is displayed.

5. The recording medium of claim 1, wherein, if one title is not selected from the title block within a predetermined time, a video data section associated with a title in the title block specified  
25 to an entry title is reproduced.

6. The recording medium of claim 1, wherein, if jump to a previous/next title is requested during reproduction of a title pertaining to the title block, another title adjacent to and not

pertaining to the title block is reproduced.

7. The recording medium of claim 1, wherein the different reproduction paths are assigned to different parental levels, respectively.

5        8. The recording medium of claim 1, wherein each of the titles has information to access a playlist including at least one playitem that points to a part of the multi-path video data.

9. The recording medium of claim 1, wherein the title management information includes title selection menu data or  
10 information to access title selection menu data.

10. A method for recording a data structure for managing reproduction of multi-path video data on a recording medium, comprising:

recording the multi-path video data in a data area on the  
15 recording medium; and

recording title management information in a management information area on the recording medium, wherein:

the title management information includes at least one title block that is composed of an entry title and at least one non-entry  
20 title; and

the titles pertaining to the title block are associated with mutually different reproduction paths.

11. An apparatus for recording a data structure for managing reproduction of multi-path video data on a recording medium,  
25 comprising:

a drive for driving an optical recording means that records data on the recording medium;

an encoder for encoding the multi-path video data; and

a controller for controlling the drive to record the encoded multi-path video data in a data area on the recording medium and title management information in a management information area on the recording medium, wherein:

5           the title management information includes at least one title block that is composed of an entry title and at least one non-entry title; and

          the titles pertaining to the title block are associated with mutually different reproduction paths.

10           12. A method for reproducing a data structure for managing reproduction of multi-path video data recorded on a recording medium, comprising:

          reproducing title management information from a management information area on the recording medium; and

15           reproducing the multi-path video data from a data area on the recording medium based on the title management information, wherein:

          the title management information includes at least one title block that is composed of an entry title and at least one non-entry title; and

20           the titles pertaining to the title block are associated with mutually different reproduction paths.

          13. The method of claim 12, wherein the titles pertaining to the title block are regarded as a single title when title jump is conducted and title selection menu is displayed.

25           14. The method of claim 13, further comprising the step of, if jump to a previous/next title is requested during reproduction of a title pertaining to the title block, reproducing another title adjacent to and not pertaining to the title block.

15. The method of claim 13, further comprising the step of displaying one title menu item for all titles pertaining to the title block when a title selection menu is outputted.

16. The method of claim 12, wherein, if one title is not  
5 selected from the title block within a predetermined time, a video data section associated with a title in the title block specified to an entry title is reproduced.

17. An apparatus for reproducing a data structure for managing reproduction of multi-path video data recorded on a recording medium,  
10 comprising:

a drive for driving an optical reproducing device to reproduce data recorded on the recording medium;

a decoder for presenting the reproduced data; and

a controller for controls the drive to reproduce title  
15 management information from a management information area on the recording medium and the multi-path video data from a data area on the recording medium based on the title management information, wherein:

the title management information includes at least one title  
20 block that is composed of an entry title and at least one non-entry title; and

the titles pertaining to the title block are associated with mutually different reproduction paths.

18. The apparatus of claim 17, wherein, if jump to a  
25 previous/next title is requested during reproduction of a title pertaining to the title block, the controller controls the drive to reproduce another title adjacent to and not pertaining to the title block.

19. The apparatus of claim 17, wherein the controller controls the decoder to present one title menu item for all titles pertaining to the title block when outputting a title selection menu.

20. The apparatus of claim 17, wherein, if one title is not  
5 selected from the title block within a predetermined time, the controller controls the drive to reproduce a video data section associated with a title in the title block specified to an entry title.